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RESTORATION ADVISORY BOARD EXECUTIVE SUMMARY 22 FROM 2 NOVEMBER 2000
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NAVAL AIR STATION
FORT WORTH JRB
CARSWELL FIELD
TEXAS

ADMINISTRATIVE RECORD
COVER SHEET

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Carswell/Plant 4

WORK PLAN
DATA GAP INVESTIGATION OF THE SOUTHERN LOBE TRICHLOROETHENE PLUME

Restoration Advisory Board Executive Summary #22 • November 2, 2000

INTRODUCTION

Naval Air Station Fort Worth Joint Reserve Base (NAS Fort Worth JRB), formerly Carswell Air Force Base (AFB), is in the process of planning a Focused Feasibility Study (FFS). The FFS is being conducted through the combined efforts of the Air Force Center for Environmental Excellence (AFCEE), the Air Force Base Conversion Agency (AFBCA), and Aeronautical Systems Center (ASC).

BACKGROUND

This Work Plan focuses on the collection of data from the area comprising the Southern Lobe of the Trichloroethene (TCE) Plume in support of an ongoing FFS. The objective of the FFS is to develop and evaluate remedial options that focus on the release of Federal land located to the southeast of the current NAS Fort Worth JRB (i.e., surrounding Carswell Golf Course). Currently, this property is controlled by the Base Realignment and Closure (BRAC) program, which releases land for suitable public use. This Work Plan outlines the rationale and procedures for the collection of data that will fill data gaps that impede the completion of the FFS.

The objective of this investigation is to fill data gaps resulting from previous investigations. The activities that are outlined in this Work Plan are necessary to complete the following five objectives:

- Fill data gaps with respect to plume delineation. This will be accomplished by installing seven monitoring wells at selected locations, primarily in the vicinity of Farmers Branch Creek, to define more closely the periphery of the TCE plume near Farmers Branch and at the eastern boundary of the TCE plume.

- Delineate the location of the paleochannel. Six monitoring wells will be installed 2 to 3 feet into bedrock along the suspected location of the paleochannel. This delineation will assist in identifying the preferred flow path for the plume and possibly aid in the selection of a remedial alternative, if needed. These wells will be flow-tested to determine the hydraulic conductivities within the paleochannel.

- Perform aquifer characterization at the NAS Fort Worth JRB and former Carswell AFB property boundary. An evaluation for hydraulic conductivity, transmissivity, and specific yield will be conducted.

- Evaluate the lithologic characteristics of the Goodland/Walnut confining units underlying the unconsolidated alluvium. Three borings will be advanced through the Terrace Alluvium, the Goodland/Walnut confining units, and into the Paluxy Aquifer. Continuous rock cores will be collected. Coring will terminate after approximately 15 feet of penetration into the saturated portion of the Paluxy Aquifer. Monitoring wells will be installed in the borings and screened only within the Paluxy Aquifer. Groundwater sampling of the Paluxy Aquifer wells will determine whether contaminated groundwater has infiltrated from the Terrace Alluvium.

- Perform an aqueduct assessment. The assessment will consist of evaluating the following: aqueduct construction, subsurface setting, and condition of the aqueduct, including possible contaminant entry points (e.g., storm sewers, AFP 4 surface water, groundwater infiltration). The assessment will be performed by a physical examination of the aqueduct consisting of a walk-through and surrounding site survey.

The location of the five data gap investigations is depicted in Figure 1. These investigations will be conducted during the Fall of 2000 and results will be included in the FFS report.

For More Information:

If you would like more information, please see our website at http://www.afcee.brooks.af.mil/er/carswell/nasfw/ or contact George Walters, the Aeronautical Systems Center, Wright-Patterson Air Force Base, OH, at 1-800-982-7248 Ext. 416 or via e-mail at George.Walters@wpafb.af.mil.

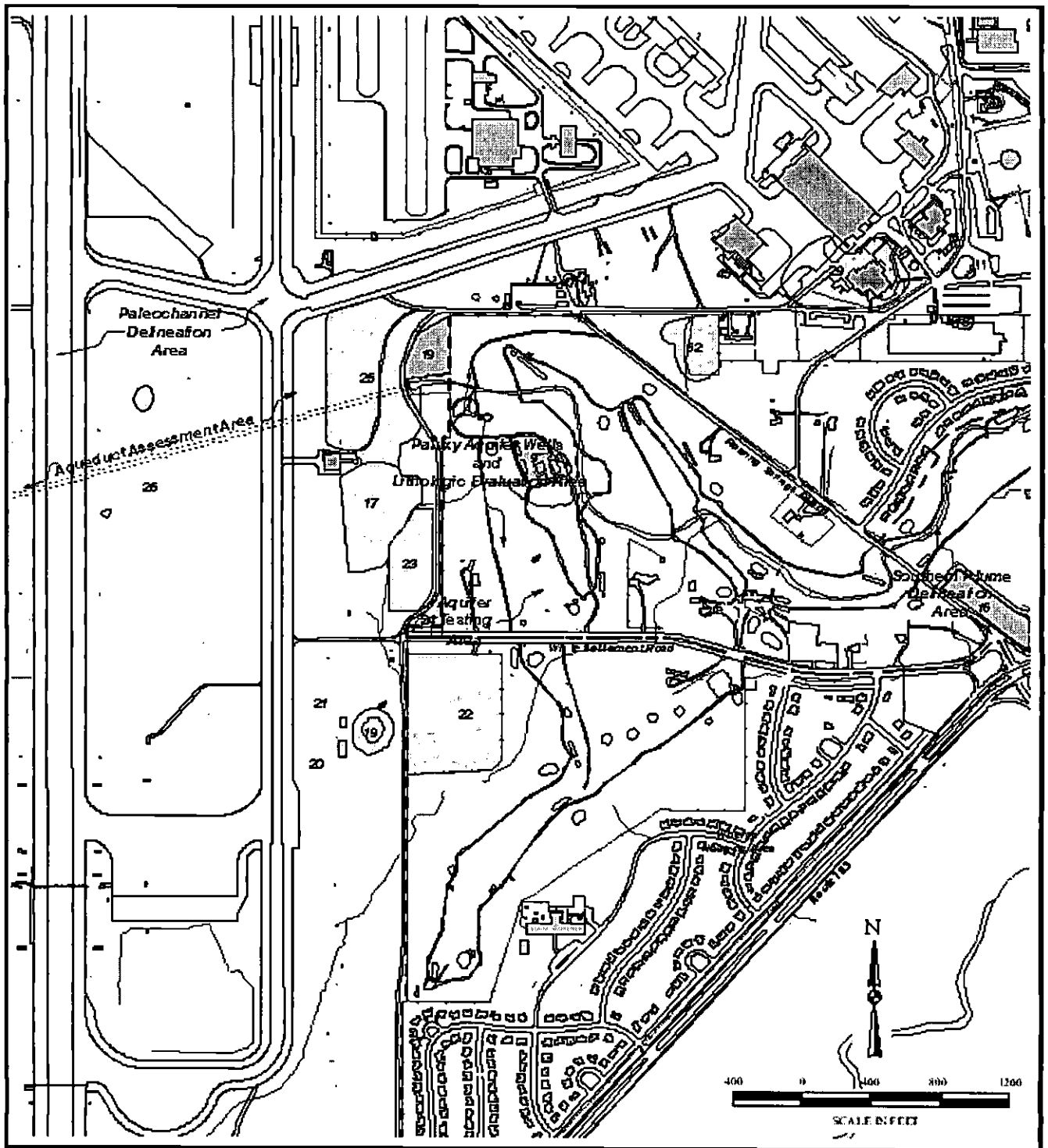

Figure 1
Data Gap Investigation Areas
NAS Fort Worth JRB

U.S. Air Force Center for Environmental Excellence

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ADMINISTRATIVE RECORD

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